

WHAT IS CLAIMED IS:

1. A recording medium having recorded thereon coded information of an image sequence, wherein:

the coded information includes coded data of P and B frames;

the coded data of a P frame includes information specifying a positive rounding method or a negative rounding method which is used for interpolating intensity values of pixels in motion compensation, when the P frame is decoded; and

the coded data of a B frame does not include information specifying a rounding method which is used for interpolating intensity values of pixels in motion compensation, when the B frame is decoded.

2. A recording medium according to claim 1, wherein:

said positive rounding method is performed in accordance with the following equations:

$$I_b = [(L_a + L_b + 1)/2] ; I_c = [(L_a + L_c + 1)/2] ; I_d = [(L_a + L_b + L_c + L_d + 2)/4], \text{ and}$$

said negative rounding method is performed in accordance with the following equations:

$$I_b = [(L_a + L_b)/2] ; I_c = [(L_a + L_c)/2] ; I_d = [(L_a + L_b + L_c + L_d + 1)/4],$$

where L_a is an intensity value of a first pixel in the reference image, L_b is an intensity value of a second pixel in the reference image which is horizontally adjacent to

the first pixel, L_c is an intensity value of a third pixel in the reference image which is vertically adjacent to the first pixel, and L_d is an intensity value of a fourth pixel in the reference image which is vertically adjacent to the second pixel and horizontally adjacent to the third pixel, I_b is an interpolated intensity value at a midpoint between a position of the first pixel and a position of the second pixel, I_c is an interpolated intensity value at a midpoint between the position of the first pixel and a position of the third pixel, and I_d is an interpolated intensity value of a midpoint between the position of the first pixel, the position of the second pixel, the position of the third pixel, and a position of the fourth pixel.